

ELECTRONIC TUBE REFERENCE

6135

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Miniature medium-mu triode for VHF local-oscillator, audio-amplifier, and general-purpose applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6BG	BASE PINS	7
NOMINAL HEATER	6.3 V / 175 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

6BG - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – P	A	P – Plate (Anode)	CONNECTED
PIN2 – IC	–	–	IC
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – P	A	P – Plate (Anode)	CONNECTED
PIN6 – G1	A	G1 – Control Grid	CONNECTED
PIN7 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	6250 Ω
TRANSCONDUCTANCE	0.0031 S
AMPLIFICATION FACTOR	19.5
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	25 mA
MAXIMUM HEATER-CATHODE VOLTAGE	90 V
<i>Medium-mu triode.</i>	

Miniature medium-mu triode for VHF local-oscillator, audio-amplifier, and general-purpose applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	1.5 pF	—
Output capacitance	0.7 pF	—
Grid-to-plate capacitance	1.4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Grid voltage	-8.5 V	ClassA
Plate current	10.5 mA	ClassA
Plate voltage	100 V	ClassA
Grid voltage	0 V	ClassA
Plate current	11.8 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7700 ohm	At250V
Transconductance	2200 uS	At250V
Amplification factor	17	At250V
Plate resistance	6250 ohm	At100V
Transconductance	3100 uS	At100V
Amplification factor	19.5	At100V

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 GENERAL ELECTRIC CO

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	6.3 V	—
HeaterOrFilamentCurrentNominal	175 mA	—
Plate Voltage	300 V	Published datasheet table
Plate Dissipation	3.5 W	Published datasheet table
DC Cathode Current	25 mA	Published datasheet table
Heater Cathode Voltage	90 V	Published datasheet table
WithFixedBias	0.25 Megohm	Published datasheet table
WithCathodeBias	1 Megohm	Published datasheet table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PlateVoltageValue1	100 V	Published datasheet table
PlateVoltageValue2	250 V	Published datasheet table
GridVoltageValue1	0 V	Published datasheet table
GridVoltageValue2	8.5 V	Published datasheet table
AmplificationFactorValue1	19.5	Published datasheet table
AmplificationFactorValue2	17	Published datasheet table
PlateResistanceApproximateValue1	6250 Ohm	Published datasheet table
PlateResistanceApproximateValue2	7700 Ohm	Published datasheet table
TransconductanceValue1	3100 uS	Published datasheet table
TransconductanceValue2	2200 uS	Published datasheet table
PlateCurrentValue1	11.8 mA	Published datasheet table
PlateCurrentValue2	10.5 mA	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GridVoltageApproximateForI10Microamperes	10 uA	Published datasheet table

TUBE TINKER

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and their source documents.

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